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**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard

1 **A parallel hill climbing algorithm for pushing dependent data in clients-providers-servers systems**
*Martinez, F.J.O.; Gonzalez, J.S.; Stojmenovic, I.;*
Computers and Communications, 2002. Proceedings. ISCC 2002. Seventh International Symposium on , 1-4 July 2002
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2 **User-friendly access control for public network ports**
*Appenzeller, G.; Roussopoulos, M.; Baker, M.;*
INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 2 , 21-25 March 1999
Pages:699 - 707 vol.2

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3 **Adaptable access strategies provide a high usefulness of the objects in an open distributed environment**
*Samarasinghe, R.; Yasutake, Y.; Kato, T.;*
Advanced Information Networking and Applications, 2004. AINA 2004. 18th International Conference on , Volume: 2 , 29-31 March 2004
Pages:413 - 418 Vol.2

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4 **Intelligent decision aids for 21st C4I architectures**
*Voruganti, R.; Che-Fn Yu; Hinnawi, N.; Bitar, N.; Rivera, B.;*
MILCOM 97 Proceedings , Volume: 2 , 2-5 Nov. 1997
Pages:618 - 622 vol.2

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5 **A two layered approach for securing an object store network**
*Azagury, A.; Canetti, R.; Factor, M.; Halevi, S.; Henis, E.; Naor, D.; Rinetzky, N.; Rodeh, O.; Satran, J.;*
Security in Storage Workshop, 2002. Proceedings. First International IEEE , 11 Dec. 2002
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6 **Adaptive congestion control in infrastructure wireless LANs with bounded medium access delay**
*Heng Xu; Qi Xue; Ganz, A.;*
Mobility and Wireless Access Workshop, 2002. MobiWac 2002. International , 12 Oct. 2002
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7 **Achieving service portability in ICEBERG**
*Mao, Z.M.; Katz, R.;*
Service Portability and Virtual Customer Environments, 2000 IEEE , 1 Dec. 2000
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8 **A MAC protocol for real-time manufacturing traffic in client-server-based high speed broadcast networks**
*Liu, J.C.; Yuang, M.C.; Chwan-Hwa Wu;*
Industrial Electronics, Control, and Instrumentation, 1996., Proceedings of the 1996 IEEE IECON 22nd International Conference on , Volume: 1 , 5-10 Aug. 1996
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9 **Imagery and information over the Defense Red Switch Network**
*Berry, J.; Vin, H.M.;*
Military Communications Conference, 1996. MILCOM '96, Conference Proceedings, IEEE , Volume: 2 , 21-24 Oct. 1996
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10 **An adaptive network prefetch scheme**
*Jiang, Z.; Kleinrock, L.;*
Selected Areas in Communications, IEEE Journal on , Volume: 16 , Issue: 3 , April 1998
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11 **WWW traffic reduction and load balancing through server-based caching**
*Bestavros, A.;*
Concurrency, IEEE [see also IEEE Parallel & Distributed Technology] , Volume: 5 , Issue: 1 , Jan.-March 1997
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**IEEE JNL**

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12 **A digital storage media-command and control network**
*Himonas, S.D.; Gelman, A.D.;*
Global Telecommunications Conference, 1997. GLOBECOM '97., IEEE , Volume: 2 , 3-8 Nov. 1997
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13 **A strategy to manage cache consistency in a disconnected distributed environment**
*Gupta, S.K.S.; Srimani, P.K.;*
Parallel and Distributed Systems, IEEE Transactions on , Volume: 12 , Issue: 7 , July 2001
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**IEEE JNL**

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14 **An Internet-based real-time control engineering laboratory**
*Overstreet, J.W.; Tzes, A.;*
Control Systems Magazine, IEEE , Volume: 19 , Issue: 5 , Oct. 1999
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**IEEE JNL**

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15 **Demand-based document dissemination to reduce traffic and balance load in distributed information systems**
*Bestavros, A.;*
Parallel and Distributed Processing, 1995. Proceedings. Seventh IEEE Symposium on , 25-28 Oct. 1995
Pages:338 - 345

IEEE CNF

Terms used
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1 Cluster-based scalable network services
Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms

2 Dynamic network reconfiguration support for mobile computers
Jon Inouye, Jim Binkley, Jonathan Walpole
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

3 Network layer access control for context-aware IPv6 applications
Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies
July 2003 **Wireless Networks**, Volume 9 Issue 4
Full text available: pdf(3.57 MB) Additional Information: full citation, abstract, references, index terms

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

**Keywords**: authentication, mobile IPv6, public access point, security, wireless Internet

4 A framework for the transmission of streaming media to mobile devices
Kevin Curran, Gerard Parr
January 2002 **International Journal of Network Management**, Volume 12 Issue 1
Full text available: pdf(302.57 KB) Additional Information: full citation, abstract, references, index terms

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction to predict

a mobile terminal's future location based on its previous history (i.e. the last cell that it has been in) and for the media stream to be already present and cached by next cells base station ready for receiving by the mobile dev ...

5 On providing support for protocol adaptation in mobile wireless networks

Pradeep Sudame, B. R. Badrinath

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available: pdf(146.48 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: adaptivity, mobility, protocols, wireless networks

6 Transport protocols: A receiver-centric transport protocol for mobile hosts with heterogeneous wireless interfaces

Hung-Yun Hsieh, Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar

September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: pdf(577.61 KB) Additional Information: full citation, abstract, references, index terms

Numerous transport protocols have been proposed in related work for use by mobile hosts over wireless environments. A common theme among the design of such protocols is that they specifically address the distinct characteristics of the last-hop wireless link, such as random wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that due to the defining role played by the wireless link on a connection's performance, locating the intelligence of a transport ...

**Keywords**: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host, seamless handoff, server migration

7 Physical interface: Fine-grained network time synchronization using reference broadcasts

Jeremy Elson, Lewis Girod, Deborah Estrin

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, citings

Recent advances in miniaturization and low-cost, low-power design have led to active research in large-scale networks of small, wireless, low-power sensors and actuators. Time synchronization is critical in sensor networks for diverse purposes including sensor data fusion, coordinated actuation, and power-efficient duty cycling. Though the clock accuracy and precision requirements are often stricter than in traditional distributed systems, strict energy constraints limit the resources available ...

8 DOS protection: Using graphic turing tests to counter automated DDoS attacks against web servers

William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available: pdf(256.83 KB) Additional Information: full citation, abstract, references, index terms

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric interface, and the extensibility inherent in many browsers through downloadable "applets." We guarantee access to a web server for a large number of *previously unknown* users, without

requiring pre-existing trust relationships between ...

**Keywords**: Java, graphic turing tests, web proxies

9 SOS: secure overlay services

Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4

Full text available: pdf(210.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Denial of service (DoS) attacks continue to threaten the reliability of networking systems. Previous approaches for protecting networks from DoS attacks are reactive in that they wait for an attack to be launched before taking appropriate measures to protect the network. This leaves the door open for other attacks that use more sophisticated methods to mask their traffic.We propose an architecture called Secure Overlay Services (SOS) that proactively prevents DoS attacks, geared toward supportin ...

**Keywords**: denial of service attacks, network security, overlay networks

10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**Keywords**: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

12 Voice over IP versus voice over frame relay

Pauline P. Francis-Cobley, Adrian D. Coward

July 2004 **International Journal of Network Management**, Volume 14 Issue 4

Full text available: pdf(185.08 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a comparison of the voice-enabling features of the Internet protocol (IP)

and frame relay (FR) networks. The discussion focuses on the issues that affect the quality of service of voice applications and the relative suitability of IP and FR for delivering voice applications. This independent assessment serves to assist network managers in decision-making regarding suitable packetized voice solutions.

13 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

**Keywords**: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

14 Trunking of TDM and narrowband services over IP Networks

James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

15 DOS protection: Hop-count filtering: an effective defense against spoofed DDoS traffic

Cheng Jin, Haining Wang, Kang G. Shin
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available: pdf(213.86 KB) Additional Information: full citation, abstract, references, index terms

IP spoofing has been exploited by Distributed Denial of Service (DDoS) attacks to (1) conceal flooding sources and localities in flooding traffic, and (2) coax legitimate hosts into becoming reflectors, redirecting and amplifying flooding traffic. Thus, the ability to filter spoofed IP packets near victims is essential to their own protection as well as to their avoidance of becoming involuntary DoS reflectors. Although an attacker can forge any field in the IP header, he or she cannot falsify t ...

**Keywords**: DDoS defense, TTL, host-based, networking, security

16 A wireless public access infrastructure for supporting mobile context-aware IPv6 applications

Adrian Friday, Maomao Wu, Stefan Schmid, Joe Finney, Keith Cheverst, Nigel Davies
July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Full text available: pdf(768.12 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel wireless access point architecture designed to support the

development of next generation mobile context-aware applications over metropolitan scale areas. In addition, once deployed, this network will allow ordinary citizens secure, accountable and convenient access to the Internet from their local city and campus environments.

The proposed architecture is based on an approach utilising a modified Mobile IPv6 protocol stack that uses packet marking ...

**Keywords**: authentication, mobile IPv6, public access point, security, wireless internet

17 Exploiting path diversity in mobile systems: A mechanism for host mobility management supporting application awareness

Arjan Peddemors, Hans Zandbelt, Mortaza Bargh

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(499.48 KB) Additional Information: full citation, abstract, references, index terms

Many approaches exist today that address the issues that arise when a mobile node changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at the IP layer; others at the transport layer (Mobile SCTP) or at the application layer (SIP with re-invite). In practice, most of these approaches rely on functionality residing on the mobile host that scans, detects and activates the networks available through one or more network interfaces.The mechanism proposed in this pa ...

**Keywords**: application awareness, host mobility, mobility management

18 Self-configuring localization systems: Design and Experimental Evaluation

Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran

February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Full text available: pdf(261.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning.This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a *self-configuring* localization system using radio beacons. We identify beacon *density* as an important parameter in determining localization quality, which sat ...

**Keywords**: Location, localization, self-configuration, sensor networks

19 Stateful distributed interposition

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available: pdf(833.84 KB) Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

**Keywords**: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

**20** Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: pdf(166.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

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| S17 | 97 | ((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/01 05:48 |
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| S23 | 10 | (((((client.ab. and (server provider). ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4))) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/01 06:08 |
| S24 | 25 | (((((client.ab. and (server provider). ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/01 06:09 |
| S25 | 29 | (((((client.ab. and (server provider). ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/01 06:09 |

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| S30 | 6 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and beacon | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:52 |
| S31 | 9 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 and (beacon ack acknowledgement) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:39 |
| S32 | 7 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 and (beacon ack acknowledgement)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and beacon) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:39 |

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| S33 | 45 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:50 |
| S34 | 25 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4))) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:50 |
| S35 | 6 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not ((((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:51 |

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| S36 | 17759 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:53 |
| S37 | 463 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:55 |
| S38 | 462 | (((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not ((((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:54 |
| S39 | 25 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3). ab. ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:55 |

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| S40 | 30035554 | not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/12 16:58 |

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| S41 | 24 | (((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3).ab. ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not ((((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/06/13 18:27 |
| S42 | 10308 | client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S43 | 355 | (client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S44 | 267 | ((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and configur$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S45 | 49 | (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S46 | 37 | ((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S47 | 35 | (((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and previous$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S48 | 122 | ((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S49 | 26 | (((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S50 | 96 | ((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) and (second near$5 address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S51 | 36 | (((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S52 | 36 | (((((client and (server provider) and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S53 | 0 | ((((((client and (server provider) and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 old$3)) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S54 | 11 | (((((client.ab. and (server provider).ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4))) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S55 | 30 | (((((client.ab. and (server provider).ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and (previous$4 old$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S56 | 35 | (((((client.ab. and (server provider).ab. and (tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S57 | 614 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S58 | 263 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S59 | 122 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S60 | 35 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S61 | 10 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and beacon | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S62 | 12 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 and (beacon ack acknowledgement) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S63 | 9 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3 and (beacon ack acknowledgement)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and beacon) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S64 | 65 | ((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S65 | 29 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4))) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S66 | 8 | (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not ((((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S67 | 22140 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S68 | 595 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S69 | 594 | (((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3) ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S70 | 28 | ((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3). ab. ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S71 | 31364913 | not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |

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| S72 | 27 | (((((((tabl$3 databas$3) and (limit$4 max$5 maximum$3 threshold$3).ab. ))) and (encrypt$4 decrypt$4))) and (ip and beacon signal acknowledgement ack) and ((first second) adj address)) not (((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ip and (ack beacon acknowledgement)) not ((((((((tabl$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) ) and limit$4.ab.) ) and (encrypt$4 decrypt$4))) and ((previous$4 old$3) near$5 address) and ip and filter$3) not (((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) not ((((((client and (server provider) and (tab$3 databas$3) and limit$4 and (max$5 maximum$3 threshold$3) and filter$4 ) and limit$4.ab.) and (configur$4 same limit$4)) and (encrypt$4 decrypt$4)) and ip) and (previous$4 same (access$4 authoriz$4 authenticat$4)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S73 | 2957 | network$4 and (beacon same signal) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S74 | 785 | S73 and (lan wan) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S75 | 230 | S73 and (lan wan) | USPAT | OR | ON | 2005/03/01 12:26 |
| S76 | 223 | S75 and (limit$4 threshold$4 max$4 maximum greater less) | USPAT | OR | ON | 2005/03/01 12:26 |
| S77 | 209 | S75 and ((limit$4 threshold$4 max$4 maximum) and (greater less compar$4)) | USPAT | OR | ON | 2005/03/01 12:26 |
| S78 | 97 | S75 and ((first second) same address$4) | USPAT | OR | ON | 2005/03/01 12:26 |

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| S79 | 392 | client$3 and (beacon same signal) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/01 12:26 |
| S80 | 114 | client$3 and (beacon same signal) | USPAT; DERWENT | OR | ON | 2005/03/01 12:26 |
| S81 | 37 | S80 and ((first second) same address$4) and ((frequenc$4 limit$4 threshold$4 max$4 maximum) and (greater less compar$4)) | USPAT; DERWENT | OR | ON | 2005/03/01 12:26 |
| S82 | 77 | S80 not S81 | USPAT; DERWENT | OR | ON | 2005/03/01 12:26 |